

We claim:

1. A composite laminate comprising:
 - 5 a cast film layer having a basis weight in the range of 5 to 50 gsm,
wherein said cast film layer comprises at least two layers having different
constituent parts and wherein at least one layer of said cast film is an outer
layer, said outer layer comprising a polypropylene resin selected from the
group consisting of polypropylene homopolymers, polypropylene copolymers,
10 and blends of polypropylene with other polymers; and
 a nonwoven substrate layer laminated to said outer layer.
2. A composite laminate according to claim 1, wherein at least one
layer of said cast film layer is a barrier layer sufficient to prevent blood,
15 viruses, and bacteria from passing through the cast film layer.
3. The composite laminate according to claim 2, wherein said barrier
layer comprises a low density polyethylene.
- 20 4. The composite laminate according to claim 2, wherein said barrier
layer comprises a blend of a low density polyethylene and a linear low density
polyethylene.
- 25 5. (Canceled).

6. The composite laminate according to claim 1, wherein said cast film layer comprises at least two polyolefinic resins selected from the group consisting of polyethylene resins, polypropylene homopolymers, polypropylene copolymers, low density polyethylene, linear low density polyethylene, ethyl vinyl acetate, ethylene methyl acrylate, maleic anhydride modified polyethylene, amorphous polypropylene, crystalline polypropylene, random copolymers of polypropylene and polyethylene and blends thereof.

7. The composite laminate of claim 1, wherein said nonwoven substrate layer comprises a spunbond polypropylene having a basis weight in the range of 10 to 100 gsm.

8. The composite laminate of claim 1, wherein said nonwoven substrate layer comprises a fabric having a basis weight in the range of 10 to 100 gsm and wherein said fabric is selected from the group consisting of polyethylene, polyester and bicomponent polyethylene/polyester fibers.

9. The composite laminate of claim 1, wherein said nonwoven substrate layer is laminated to said outer layer using an adhesive having a dry basis weight in the range of 1 to 10 gsm.

10. A composite laminate comprising:
a cast film layer, wherein said cast film layer comprises at least two layers, wherein at least one layer of said cast film is an outer layer, said outer layer comprising a polypropylene resin selected from the group consisting of

polypropylene homopolymers, polypropylene copolymers, and blends of polypropylene and other polymers, and wherein at least one layer of said cast film is a barrier layer sufficient to prevent blood, viruses, and bacteria from passing through the cast film layer; and

5 a nonwoven substrate layer laminated to said outer layer, wherein said nonwoven substrate layer comprises a fabric having a basis weight in the range of 10 to 100 gsm and wherein said fabric is selected from the group consisting of polypropylene, polyethylene, polyester and bicomponent polyethylene/polyester fibers.

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11. A composite laminate comprising:

 a cast film layer, wherein said cast film layer comprises at least two layers, wherein at least one layer of said cast film is an outer layer comprising a blend of polypropylene and polyethylene and wherein at least one layer of
15 said cast film is a barrier layer sufficient to prevent blood, viruses, and bacteria from passing through the cast film layer; and

 a nonwoven substrate layer laminated to said outer layer comprising a polypropylene fabric having a basis weight in the range of 10 to 100 gsm.

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12. A composite laminate comprising:

 a cast film layer, wherein said cast film layer comprises at least three layers having different constituent parts and wherein at least two layers of said cast film is an outer layer, said outer layer comprising a polypropylene resin selected from the group consisting of polypropylene homopolymers,

polypropylene copolymers, and blends of polypropylene with other polymers;
and

at least two nonwoven substrate layers laminated to said outer layers.

5 13. A composite laminate according to claim 12, wherein at least one
layer of said cast film layer is a barrier layer sufficient to prevent blood,
viruses, and bacteria from passing through the cast film layer.

10 14. The composite laminate according to claim 13, wherein said barrier
layer comprises a low density polyethylene.

15 15. The composite laminate according to claim 13, wherein said barrier
layer comprises a blend of a low density polyethylene and a linear low density
polyethylene.

 16. The composite laminate according to claim 12, wherein said cast
film layer has a basis weight in the range of 5 to 50 gsm.

20 17. The composite laminate according to claim 12, wherein said cast
film layer comprises at least two polyolefinic resins selected from the group
consisting of polyethylene resins, polypropylene homopolymers,
polypropylene copolymers, low density polyethylene, linear low density
polyethylene, ethyl vinyl acetate, ethylene methyl acrylate, maleic anhydride

modified polyethylene, amorphous polypropylene, crystalline polypropylene, random copolymers of polypropylene and polyethylene and blends thereof.

18. The composite laminate of claim 12, wherein said nonwoven
5 substrate layer comprises a spunbond polypropylene having a basis weight in the range of 10 to 100 gsm.

19. The composite laminate of claim 13, wherein said nonwoven
10 substrate layer comprises a fabric having a basis weight in the range of 10 to 100 gsm and wherein said fabric is selected from the group consisting of polyethylene, polyester and bicomponent polyethylene/polyester fibers.

20. The composite laminate of claim 12, wherein said nonwoven
15 substrate layer is laminated to said outer layer using an adhesive having a dry basis weight in the range of 1 to 10 gsm.

21. A composite laminate comprising:
a cast film layer, wherein said cast film layer comprises at least three
20 layers, wherein at least two layers of said cast film are outer layers, said outer layers comprising a polypropylene resin selected from the group consisting of polypropylene homopolymers, polypropylene copolymers, and blends of polypropylene and other polymers, and wherein at least one layer of said cast film is a barrier layer sufficient to prevent blood, viruses, and
25 bacteria from passing through the cast film layer; and

at least two nonwoven substrate layers laminated to said outer layers,
wherein said nonwoven substrate layer comprises a fabric having a basis
weight in the range of 10 to 100 gsm and wherein said fabric is selected from
the group consisting of polypropylene, polyethylene, polyester and
5 bicomponent polyethylene/polyester fibers.

22. The composite laminate according to claim 21, wherein said cast
film layer has three layers, a basis weight in the range of 5 to 50 gsm and
wherein the combined weight of said two outer layers lies in the range of 3%
10 to 90% of the total film weight.

23. A composite laminate comprising:
a cast film layer, wherein said cast film layer comprises at least three
layers, wherein at least two layers of said cast film are outer layers
15 comprising a blend of polypropylene and polyethylene and wherein at least
one layer of said cast film is a barrier layer sufficient to prevent blood, viruses,
and bacteria from passing through the cast film layer; and

at least two nonwoven substrate layer laminated to said outer layers
comprising a polypropylene fabric having a basis weight in the range of 10 to
20 100 gsm.

24. (Original) The composite laminate according to claim 23, wherein
said cast film layer has three layers, a basis weight in the range of 5 to 50
gsm and wherein the combined weight of said two outer layers in the range of
25 3% to 90% of the total film weight.

25. A composite laminate comprising:

a cast film layer, wherein said cast film layer comprises at least two layers having different constituent parts and wherein at least one layer of said cast film is an outer layer, said outer layer comprising a polypropylene resin
5 selected from the group consisting of polypropylene homopolymers, polypropylene copolymers, and blends of polypropylene with other polymers; and

a nonwoven substrate layer laminated to said outer layer using an adhesive having a dry basis weight in the range of 1 to 10 gsm.
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26. A composite laminate according to claim 25, wherein at least one layer of said cast film layer is a barrier layer sufficient to prevent blood, viruses, and bacteria from passing through the cast film layer.

15 27. The composite laminate according to claim 26, wherein said barrier layer comprises a low density polyethylene.

28. The composite laminate according to claim 26, wherein said barrier layer comprises a blend of a low density polyethylene and a linear low density
20 polyethylene.

29. The composite laminate according to claim 25, wherein said cast film layer comprises at least two polyolefinic resins selected from the group
25 consisting of polyethylene resins, polypropylene homopolymers,

polypropylene copolymers, low density polyethylene, linear low density polyethylene, ethyl vinyl acetate, ethylene methyl acrylate, maleic anhydride modified polyethylene, amorphous polypropylene, crystalline polypropylene, random copolymers of polypropylene and polyethylene and blends thereof.

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30. The composite laminate of claim 25, wherein said nonwoven substrate layer comprises a spunbond polypropylene having a basis weight in the range of 10 to 100 gsm.

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31. The composite laminate of claim 1, wherein said nonwoven substrate layer comprises a fabric having a basis weight in the range of 10 to 100 gsm and wherein said fabric is selected from the group consisting of polyethylene, polyester and bicomponent polyethylene/polyester fibers.

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32. A composite laminate comprising:

a cast film layer, wherein said cast film layer comprises at least two layers having different constituent parts and wherein at least one layer of said cast film is an outer layer, said outer layer comprising a polypropylene resin selected from the group consisting of polypropylene homopolymers,

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polypropylene copolymers, and blends of polypropylene with other polymers; and

a nonwoven substrate layer laminated to said outer layer;

wherein at least one layer of said cast film layer is a barrier layer sufficient to prevent blood, viruses, and bacteria from passing through the

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cast film layer.